26D6
PENTAGRID CONVERTER
MINIATURE TYPE

For use with 12-cell storage-battery supply

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:			
Voltage	26.5		ac or dc volts
Current	0.07		amp
Direct Interelectrode Capacitances:			
Grid #3 to All Other Electrodes (RF Input)	7.5●		μμf
Plate to All Other Electrodes (Mixer Output)	14●		μμf
Grid #1 to All Other Electrodes (Osc. Input)	5.8●		μμf
Grid #3 to Plate	0.30	max.●	μμf
Grid #1 to Grid #3	0.15	max.●	μμf
Grid #1 to Plate	0.03	max.●	μμf
Grid #1 to External Shield and All Other Electrodes Except Cathode & Grid No.5	2.9		μμf
Grid #1 to Cathode & Grid #5	2.8▲		μμf
Cathode to External Shield and All Other Electrodes Except Grid #1	15.5		μμf

Mechanical:

Mounting Position	Any
Maximum Overall Length	2-1/8"
Maximum Seated Length	1-7/8"
Length from Base Seat to Bulb Top (excluding tip)	1-1/2" ± 3/32"
Maximum Diameter	3/4"
Bulb	T-5-1/2
Base	Miniature Button 7-Pin
Basing Designation for BOTTOM VIEW	7CH

Pin 1 – Grid No.1
Pin 2 – Cathode, Grid No.5
Pin 3 – Heater
Pin 4 – Heater
Pin 5 – Plate
Pin 6 – Grid No.2, Grid No.4
Pin 7 – Grid No.3

CONVERTER

Maximum Ratings, *Design-Center Values*:

PLATE VOLTAGE	300 max. volts
GRIDS-No.2 & No.4 (SCREEN) VOLTAGE	100 max. volts
GRIDS-No.2 & No.4 SUPPLY VOLTAGE	300 max. volts
PLATE DISSIPATION	1.0 max. watt
GRIDS-No.2 & No.4 DISSIPATION	1.0 max. watt
TOTAL CATHODE CURRENT	14 max. ma.
GRID-No.3 (CONTROL GRID) VOLTAGE:	
Negative bias value	50 max. volts
Positive bias value	0 max. volts
PEAK HEATER-CATHODE VOLTAGE:	
Heater negative with respect to cathode	90 max. volts
Heater positive with respect to cathode	90 max. volts

● With external shield connected to cathode.
▲ With external shield connected to other electrodes.

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Characteristics - *Separate Excitation*:□				
Plate Voltage.	26.5	100	250	volts
Grids–No.2 & No.4 Voltage. .	26.5	100	100	volts
Grid–No.3 Voltage.	-0.5	-1.5	-1.5	volts
Grid–No.1 (Oscillator-Grid) Resistor	20000	20000	20000	ohms
Plate Resistance (Approx.) .	–	0.5	1.0	megohm
Conversion Transconductance	270	455	475	μmhos
Conversion Transconductance (Approx.)*	–	4	4	μmhos
Conversion Transconductance (Approx.)**	8	–	–	μmhos
Plate Current.	0.45	2.8	3.0	ma.
Grids–No.2 & No.4 Current. .	1.6	8.0	7.8	ma.
Grid–No.1 Current.	0.1	0.5	0.5	ma.
Total Cathode Current. . . .	2.15	11.3	11.3	ma.

Characteristics of Oscillator Section:▲			
Plate Voltage.	26.5	100	volts
Grids–No.2 & No.4 Voltage. . . .	26.5	100	volts
Grid–No.3 Voltage.	0	0	volts
Grid–No.1 Voltage.	0	0	volts
Amplification Factor	–	22	
Transconductance	4500	7200	μmhos
Plate Current.	5.5	27	ma.

□ The characteristics shown with separate excitation correspond very closely with those obtained in a self-excited oscillator circuit operating with zero bias.

* With grid–No.3 bias of -30 volts.

** With grid–No.3 bias of -6 volts.

▲ Measured between grid No.1 and grids–No.2 and No.4 connected to plate (not oscillating).

The curves under Type 6BE6 also apply to the 26D6

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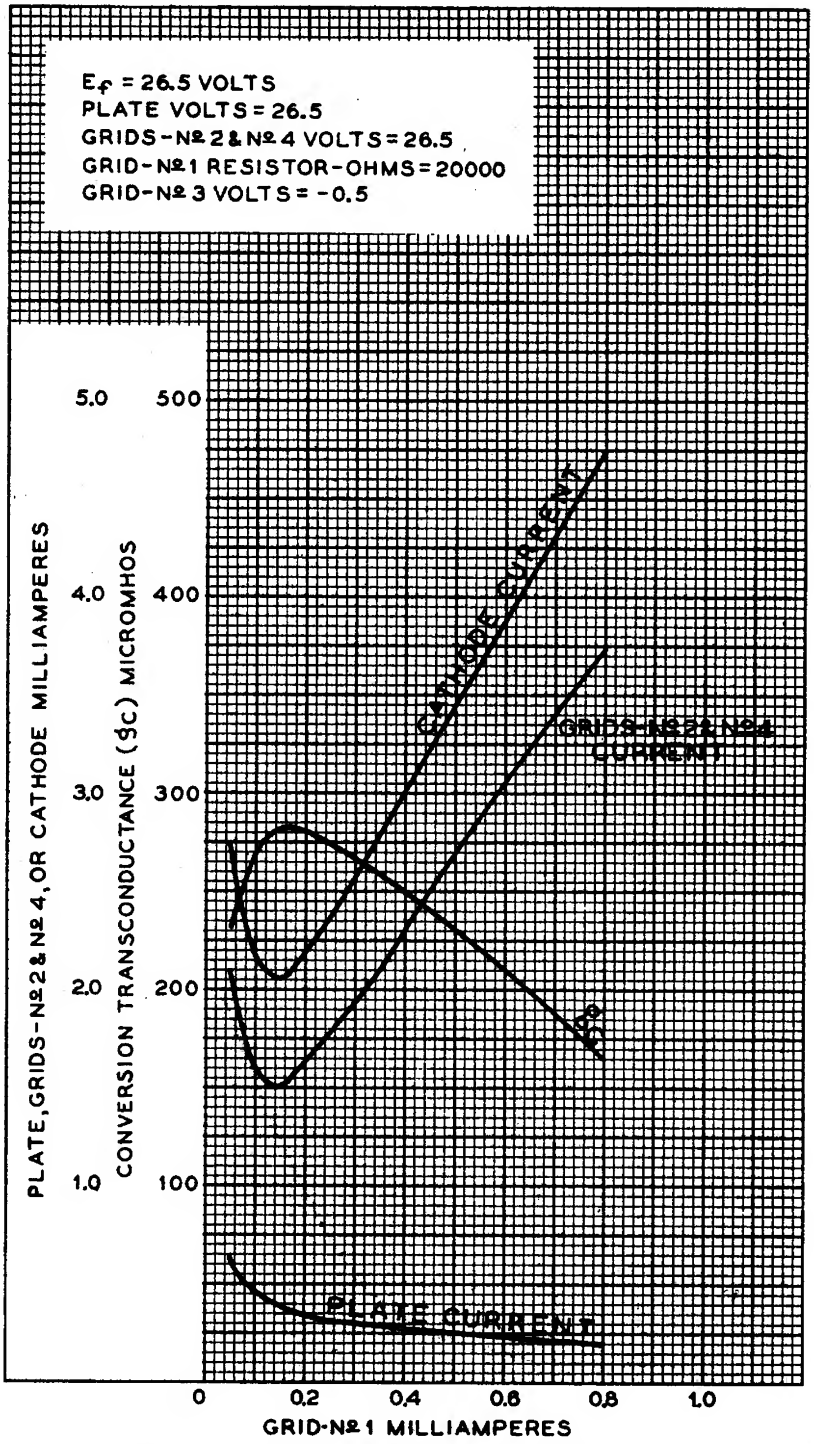
OPERATION CHARACTERISTICS
WITH SEPARATE OSCILLATOR EXCITATION



AUGUST 1,1946

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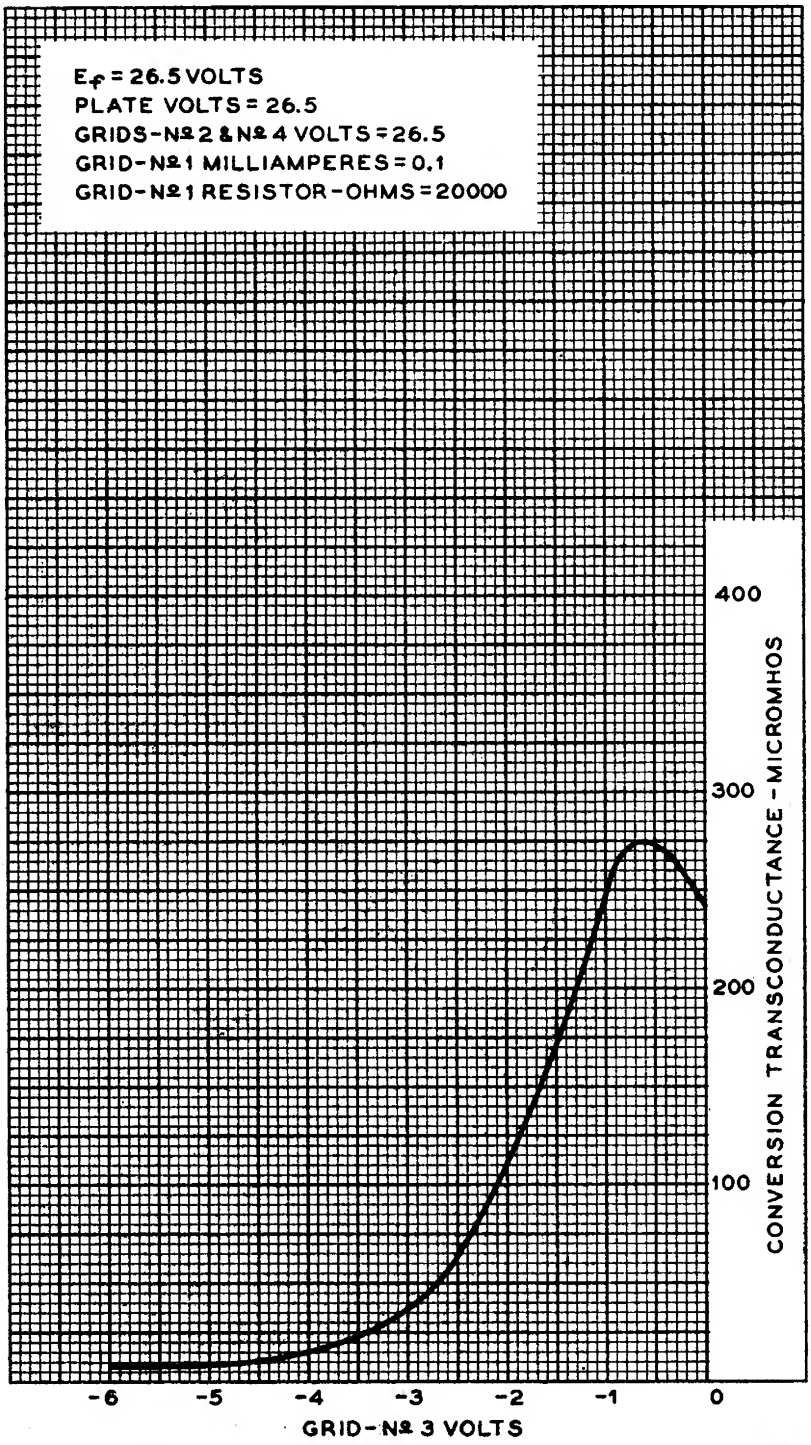
92CM-6790

26D6
OPERATION CHARACTERISTICS
WITH SEPARATE OSCILLATOR EXCITATION



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